

U.S. Department of Commerce, Patent and Trademark Office		Atty Docket No.	Serial No.
		LUM-02-09-02	Not yet known
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Applicant(s)	
		Michael J. Ludowise	
		Filing Date	Group
		Herewith	Not yet known

U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA	6,333,522 B1	12/25/01	Inoue et al.	257	99	
	AB	6,274,924 B1	8/14/01	Carey et al.	257	676	
	AC	6,486,499 B1	11/26/02	Krames et al.	257	81	
	AD	6,229,160 B1	5/8/01	Krames et al.	257	94	
	AE	5,226,053	7/6/93	Cho et al.	372	45	
	AF	5,376,580	12/27/94	Kish et al.	437	127	
	AG						
	AH						
	AI						
	AJ						
	AK						

Foreign Patent Documents

		Document	Date	Country	Class	Subclass	Translation	Yes	No
	AL								
	AM								
	AN								
	AO								
	AP								

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AQ	Danaë Delbeke et al., "High-Efficiency Semiconductor Resonant-Cavity Light-Emitting Diodes: A Review", IEEE Journal on Selected Topics in Quantum Electronics, Vol. 8, No. 2, March/April, 2002, pp. 189-206.
	AR	E. Fred Schubert et al., "Temperature and Modulation Characteristics of Resonant-Cavity Light-Emitting Diodes", Journal of Lightwave Technology, Vol. 14, No. 7, July 1996, pp. 1721-1729.
	AS	E. F. Schubert et al., "Resonant Cavity Light-Emitting Diode", Appl. Phys. Lett. 60(8), 24 February 1992, American Institute of Physics, pp. 921-923.

Examiner	Date Considered
----------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

U.S. Department of Commerce, Patent and Trademark Office		Atty Docket No.	Serial No.
		LUM-02-09-02	Not yet known
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Applicant(s)	
		Michael J. Ludowise	
		Filing Date	Group
		Herewith	Not yet known

U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

Foreign Patent Documents,

Translation

		Document	Date	Country	Class	Subclass	Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AQ	H. Benisty et al., "Impact of Planar Microcavity Effects on Light Extraction-Part II: Selected Exact Simulations and Role of Photon Recycling", IEEE Journal of Quantum Electronics, Vol. 34, No. 9, September 1998, pp. 1632-1643.
	AR	H. Benisty et al., "Impact of Planar Microcavity Effects on Light Extraction-Part I: Basic Concepts and Analytical Trends", IEEE Journal of Quantum Electronics, Vol. 34, No. 9, September 1998, pp. 1612-1631.
	AS	Ralph Wirth et al., "High-Efficiency Resonant-Cavity LEDs Emitting at 650 nm", IEEE Photonics Technology Letters, Vol. 13, No. 5, May 2001, pp. 421-423.

Examiner _____ Date Considered _____

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

U.S. Department of Commerce, Patent and Trademark Office			Atty Docket No.		Serial No.			
			LUM-02-09-02		Not yet known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)			Applicant(s) Michael J. Ludowise					
			Filing Date		Group			
			Herewith		Not yet known			
U.S. Patent Documents								
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
	AA							
	AB							
	AC							
	AD							
	AE							
	AF							
	AG							
	AH							
	AI							
	AJ							
	AK							
Foreign Patent Documents							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
	AQ	J.W. Gray et al., "High-Efficiency, Low Voltage Resonant-Cavity Light-Emitting Diodes Operating Around 650nm", Electronics Letters, 28 th September 2000, Vol. 36, No. 20, pp. 1730-1731.						
	AR	P. Modak et al., "5.2% Efficiency InAlGaP Microcavity LEDs at 640nm on Ge Substrates", Electronics Letters, 15 th March 2001, Vol. 37, No. 6, pp. 377-378.						
	AS	S. Orsila et al., "Resonant Cavity Light-Emitting Diodes Grown by Solid Source MBE", Journal of Crystal Growth 227-228 (2001) pp. 346-351.						
Examiner		Date Considered						
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.</p>								